NASA Glenn Success Stories

Polymer Summit Gives Maverick Lead on Bundled License

TECHNOLOGY

NASA Glenn's Polymers Branch has developed and patented technologies to improve the performance and production levels of high temperature polymer materials.

COMMERCIAL APPLICATION

Maverick Corporation develops high performance polymers for the aerospace, industrial, and military markets. GLITeC identified Maverick as an appropriate company to attend the Polymer Summit, an event held at NASA Glenn to introduce four polymer technologies that were bundled into one license opportunity. These four technologies are:

NASA Glenn's Polymer Summit gave Maverick Corporation the chance to license an exciting polymers technology bundle.

- Very high glass transition temperature polymers (up to 400°C for short exposures);
- Extended shelf life for high temperature polymers;
- Improved oxidation resistance for high temperature polymers;
- High temperature polymers for Resin Transfer Molding applications.

Maverick worked with GLITeC and NASA Glenn's Commercial Technology Office to sign the license, and is working with researchers in Glenn's Polymers Branch to further develop these materials. As Maverick generates commercial products, GLITeC will help them identify markets and customers.

SOCIAL/ECONOMIC BENEFIT

The technologies that Maverick licensed complement and strengthen the company's existing line of advanced polymer materials. Shortly after signing the license, Maverick started having discussions with companies that are interested in evaluating new polymers based on NASA's technologies. Maverick expects that new products derived from its NASA license will lead to sales of over $50,000 per year within three years, and should increase from there.

NASA APPLICATIONS

NASA Glenn's Polymers Branch develops high temperature polymer matrix composite materials. These materials are lightweight, have high strength, high stiffness, and can withstand temperatures over 400°C. They are particularly useful in and around jet and rocket engines, in components such as fan blades, bushings, and duct segments, and are also attracting interest for use in ammunitions and missiles.

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